I/WE CLAIM:

- 1. A noise cancellation system comprising:
- a headphone including a sound transducer and a headphone speaker;
- noise cancellation circuitry remote from the headphone supplying the headphone speaker and being supplied from the sound transducer; and,
 - a filter to normalize the output from the sound transducer of the headphone to the noise cancellation circuitry.
- 10 2. A noise cancellation system as claimed in claim 1 wherein the filter is located at the output of the sound transducer to enable effective noise cancellation to be achieved in use.
 - 3. A noise cancellation system filter as claimed in claim 2 wherein the filter comprises a passive electronic filter.

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- 4. A noise cancellation system filter as claimed in claim 3 wherein the filter comprises a resistor/capacitor network.
- 5. A noise cancellation system filter as claimed in claim 4 wherein the filter is a high pass filter in parallel with the sound transducer.
 - 6. A noise cancellation system as claimed in claim 1 wherein the sound transducer comprises an electret condenser microphone.
- 7. A headphone for a noise cancellation system comprising: one or more headphone speakers for providing sound to a user; at least one sound transducer provide din the headset adjacent to the speaker; and,

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wherein the output of the sound transducer is provided as an electric signal and is provided to a filter, and the output of the filter is available to noise cancellation circuitry to cancel noise from the signal being delivered to the speaker.

8. A headset as claimed in claim 7 wherein the filter is a high pass filter.

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